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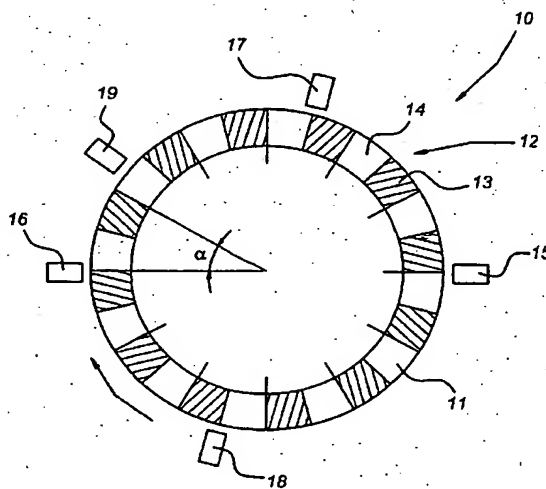
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(54) Title: **ROTATIONAL SPEED SENSOR**



(57) Abstract: Rotational speed sensor (10) comprising a rotatable ring (11), e.g. connectable to a bearing. The rotational speed sensor has K magnetic pole pairs (12) distributed angularly over the rotatable ring (11). Also, sensor means are present positioned relative to the rotatable ring such that a varying magnetic field is detected by the sensor means. The sensor means comprise a first pair of magnetic sensors (15, 16), the first pair of magnetic sensors (15, 16) being positioned  $2\pi L/K$  radians apart from each other. The sensor means may further comprise a second pair of magnetic sensors (17, 18), the second pair of sensors (17, 18) being positioned  $2\pi M/K$  radians apart from each other. The first pair of sensors (15, 16) and second pair of sensors (17, 18) are positioned at a relative position of  $(2\pi/K)*((2n-1)/2)$  radians.

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